AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer program product tangibly embodied in a computer-readable storage medium, for navigating user interface elements of a computer program application, the product comprising instructions operable to cause a data processing apparatus to execute a method for navigating user interface elements on a display screen[[:]]:

the interface elements being arranged in order into user interface element groups
having assigned group identifier characters; and

the interface elements indicating, on the display screen, an element currently having focus to receive user input; the method comprising:

detect detecting a user navigation input comprising one of key press of a navigation key, the navigation key having a group identifier, the navigation key being a forward user navigation input key or a backward user navigation input key, the forward user navigation input comprises a forward modifier key press combined with a key press of a first group identifier character, and the backward user navigation input comprises a backward modifier key press combined with a key press of a second group identifier character;

identify identifying a selected group of user interface elements associated with the <u>first or second</u> group identifier <u>character</u>; and

shift shifting input focus to a user interface element in the selected group based on the user navigation input key,

wherein, when the user navigation input key is detected pressed; :

determining a current group and a target group of userinterface elements is determined, that contains the
interface element currently having input focus, and

determining a target group that corresponds to the group identifier key press;

wherein when the <u>user</u> navigation <u>input</u> key is the forward <u>user</u> navigation <u>input</u> key, <u>:</u>

input focus is shifted to a next user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the <u>user</u> navigation <u>input</u> key is the backward <u>user</u> navigation <u>input</u> key,:

input focus is shifted to a previous user an interface element previous in order in the current group if the current group is the same as the target group, or input focus is shifted to a last user an interface element last in order in the target group if the current group is not the same as the target group.

- 2. (Canceled).
- 3. (Currently Amended) The product of claim 1, wherein the user interface elements have associated text labels, and wherein the user interface elements associated with the <u>first or second</u> group identifier <u>character</u> are user interface elements having an associated text label with a first character that matches the <u>first or second</u> group identifier <u>character</u>.
- 4. (Currently Amended) The product of claim 1, wherein a character matches a group identifier <u>character</u> if both are the same character regardless of character case.
- 5. (Currently Amended) The product of claim 1, wherein a character matches a group identifier <u>character</u> if both are the same character in the same case.

- 6. (Original) The product of claim 1, wherein the user interface elements have associated text labels, the product further comprising instructions to:
 - group the user interface elements into groups based on the first character of the associated text label of the elements at application run time.
- 7. (Original) The product of claim 6, wherein group instructions to group the user interface elements into groups based on the first character of the associated text label comprise instructions to:
 - group only the user interface elements in a current screen of the application into groups based on the first character of the associated text label.
 - 8. (Currently Amended) The product of claim 1, wherein: the forward <u>user</u> navigation <u>input</u> key is a combination of one or more forward modifier keys and the <u>first</u> group identifier <u>character key</u>; and
 - the backward <u>user</u> navigation <u>input</u> <u>key</u> is a combination of one or more backward modifier keys and the <u>second</u> group identifier <u>character</u> <u>key</u>.

9. (Currently Amended) A computer program product tangibly embodied in a computer-readable storage medium, for a software application-having user interface elements, the product comprising instructions operable to cause a data processing apparatus to execute a method for navigating user interface elements on a display screen[[:]];

the interface elements being arranged in order into user interface element groups having assigned group identifier characters; and

the interface elements indicating, on the display screen, an element currently having focus to receive user input; the method comprising:

detect detecting a sequence of one or more user navigation inputs key presses of navigation keys, each navigation key having a group identifier, each user navigation input key being comprising one of a forward user navigation input key or a backward user navigation input key, the forward user navigation input comprises a forward modifier key press combined with a key press of a first group identifier character, and the backward user navigation input comprises a backward modifier key press combined with a key press of a second group identifier character;

generate generating a navigation string from the sequence of one or more group identifiers identifier characters for the one or more user navigation inputs keys; and

shift shifting input focus to a user interface element identified by the navigation string[[,]];

wherein, when the <u>user</u> navigation <u>input</u> key is <u>detected</u> pressed, :

determining a current group and a target group of user
interface elements is determined, that contains the
interface element currently having input focus, and

determining a target group that corresponds to the group identifier key press;

wherein when the <u>user</u> navigation <u>input</u> key is the forward <u>user</u> navigation <u>input</u> key, :

input focus is shifted to a next user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the <u>user</u> navigation <u>input</u> key is the backward <u>user</u> navigation <u>input</u> key,:

input focus is shifted to a previous user an interface element

previous in order in the current group if the current

group is the same as the target group, or

in order in the target group if the current group is not the same as the target group.

10. (Currently Amended) The product of claim 9, wherein instructions to detect a sequence of one or more <u>user</u> navigation <u>inputs</u> key presses comprise instructions to:

detect a sequence of forward <u>user</u> navigation <u>inputs</u> key presses, the sequence having a first <u>user</u> navigation <u>input</u> key press and a last <u>user</u> navigation <u>input</u> key press;

initialize the navigation string when the first <u>user</u> navigation <u>input</u> key press is detected;

start a time out interval with each forward <u>user</u> navigation <u>input</u> key press; and

determine the last <u>user</u> navigation <u>input</u> key press as the <u>input</u> key press after which no forward <u>user</u> navigation <u>inputs</u> key presses are detected within the time out interval.

11. (Currently Amended) The product of claim 9, wherein instructions to detect a sequence of one or more <u>user</u> navigation <u>inputs</u> key presses comprise instructions to:

- detect a sequence of backward <u>user</u> navigation <u>inputs</u> key presses, the sequence having a first <u>user</u> navigation <u>input</u> key press and a last <u>user</u> navigation <u>input</u> key press;
- initialize the navigation string when the first <u>user</u> navigation <u>input</u> key press is detected;
- start a time out interval with each backward <u>user</u> navigation <u>input</u> key
- determine the last <u>user</u> navigation <u>input</u> key press as the <u>input</u> key press after which no backward <u>user</u> navigation <u>inputs</u> key presses are detected within the time out interval.
- 12. (Currently Amended) The product of claim 9, wherein the user interface elements have an order, and instructions to shift input focus to a user interface element comprise instructions to:
 - shift input focus to a next user interface element in order having a text
 label starting with the same characters as the characters in the
 navigation string, if the user navigation input key is [[a]] the forward
 user navigation input key; and or
 - shift input focus to a previous user interface element <u>in order</u> having a text label starting with the same characters as the characters in the navigation string, if the <u>user</u> navigation <u>input</u> key is [[a]] <u>the</u> backward <u>user</u> navigation <u>input</u> key.

13. (Currently Amended) A computer program product tangibly embodied in a computer-readable storage medium, for providing activation keysfor user interface elements of a computer program application, the product comprising instructions operable to cause a data processing apparatus to execute a method for navigating user interface elements on a display screen[[:]]; the interface elements being arranged in order into user interface element groups having assigned group identifier characters; and the interface elements indicating, on the display screen, an element currently having focus to receive user input; the method comprising:

detect detecting an ensemble of sequential user activation inputs key
presses, each user activation input key comprising a character,
thereby detecting a sequence of characters, each user activation
input key being comprising one of a forward user activation input
key or a backward user activation input key, the forward user
activation input comprises a forward activation modifier key press
combined with a key press of a first group identifier character and
the backward user activation input comprises a backward activation
modifier key press combined with a key press of a second group
identifier character key;

identify identifying a matching activation user interface element by finding an activation user interface element having a label matching the sequence of characters; and

perform performing an action associated with the matching activation user interface element[[,]];

wherein, when the navigation <u>user activation input</u> key is <u>detected</u> pressed, <u>:</u>

interface elements is determined, that contains the interface element currently having input focus, and determining a target group that corresponds to the group identifier key press;

wherein when the navigation user activation input key is the forward navigation user activation input key, :

input focus is shifted to a next-user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the navigation user activation input key is the backward navigation user activation input key;

input focus is shifted to a previous user an interface element

previous in order in the current group if the current

group is the same as the target group, or

input focus is shifted to a last user an interface element last

in order in the target group if the current group is not

14. (Original) The product of claim 13, wherein instructions to detect an ensemble comprise instructions to:

detect a sequence of one or more characters that uniquely identifies an activation user interface element.

the same as the target group.

- 15. (Currently Amended) The product of claim 14, wherein the sequence of one or more characters is a sequence of identical group <u>identifier</u> characters identifiers.
- 16. (Currently Amended) The product of claim 13, wherein instructions to detect an ensemble comprise instructions to:

detect one or more sequential <u>user</u> activation <u>inputs</u> key presses entered by a user within a time threshold.

- 17. (Currently Amended) The product of claim 13, wherein: the pressing and releasing of an activation modifier key delimits the <u>user</u> activation <u>inputs key presses</u> in the ensemble.
- 18. (Currently Amended) A computer implemented method for navigating user interface elements on a display screen of a computer programapplication,

the interface elements being arranged in order into user interface element groups

having assigned group identifier characters; and

the interface elements indicating, on the display screen, an element currently having focus to receive user input, the method comprising:

detecting a <u>user</u> navigation <u>input comprising one of key press of a navigation key, the navigation key having a group identifier, the navigation key being a forward <u>user</u> navigation <u>input key</u> or a backward <u>user</u> navigation <u>input key, the forward user navigation input comprises a forward modifier key press combined with a key press of a first group identifier character and the backward user navigation input comprises a backward modifier key press combined with a key press of a second group identifier character;</u></u>

identifying a selected group of user interface elements associated with the first or second group identifier character; and

shifting input focus to a user interface element in the selected group based on the <u>user</u> navigation <u>input key[[,]]:</u>

wherein, when the <u>user</u> navigation <u>input</u> key is <u>detected</u> pressed, :

determining a current group and a target group of user interface elements is determined, that contains the interface element currently having input focus, and

determining a target group that corresponds to the group identifier key press;

wherein when the <u>user</u> navigation <u>input</u> key is the forward <u>user</u> navigation <u>input</u> key, <u>:</u>

input focus is shifted to a next user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the <u>user</u> navigation <u>input</u> key is the backward <u>user</u> navigation <u>input</u> key;:

input focus is shifted to a previous user an interface element

previous in order in the current group if the current

group is the same as the target group, or

input focus is shifted to a last user an interface element last in order in the target group if the current group is not the same as the target group.

19. (Currently Amended) The method of claim 18, wherein: the <u>user navigation input key</u> is [[a]] <u>the forward user navigation input key</u> or [[a]] <u>the backward user navigation input key</u>; and shifting input focus to a user interface element comprises:

shifting input focus to a next <u>in order</u> user interface element in the selected group if the <u>user</u> navigation <u>input key</u> is [[a]] <u>the</u> forward <u>user</u> navigation <u>input key</u>, and shifting input focus to a previous <u>in order</u> user interface element in the selected group if the <u>user</u> navigation <u>input key</u> is [[a]] <u>the</u> backward <u>user</u> navigation <u>input key</u>.

20. (Currently Amended) The method of claim 18, wherein the user interface elements have associated text labels, and wherein the user interface elements associated with the group identifier <u>character</u> are user interface elements having an associated text label with a first character that matches the group identifier <u>character</u>.

- 21. (Original) The method of claim 18, wherein the user interface elements have associated text labels, the method further comprising:

 grouping the user interface elements into groups based on the first character of the associated text label of the elements at application run time.
 - 22. (Currently Amended) The method of claim 18, wherein:

 the forward <u>user</u> navigation <u>input</u> key is a combination of one or more

 forward modifier keys and the <u>first</u> group identifier <u>character key</u>;

 and
 - the backward <u>user</u> navigation <u>input</u> key is a combination of one or more backward modifier keys and the <u>second</u> group identifier <u>character</u> . <u>key</u>.
- 23. (Currently Amended) A computer implemented method, for a software application having user interface elements on a display screen of a computer program application,

the interface elements being arranged in order into user interface element groups

having assigned group identifier characters; and

the interface elements indicating, on the display screen, an element currently having focus to receive user input, the method comprising:

detecting a sequence of one or more <u>user</u> navigation <u>inputs</u> key presses

of navigation keys, each navigation key having a group identifier,

each <u>user</u> navigation <u>input comprising one of key being</u> a forward

<u>user</u> navigation <u>input key</u> or a backward <u>user</u> navigation <u>input key</u>,

the forward user navigation input comprises a forward modifier key

press combined with a key press of a first group identifier character

and the backward user navigation input comprises a backward

modifier key press combined with a key press of a second group

identifier character;

generating a navigation string from the sequence of one or more group identifiers identifier characters for the one or more user navigation inputs keys; and

shifting input focus to a user interface element identified by the navigation string[[,]];

wherein, when the user navigation input key is detected pressed, :

interface elements is determined, that contains the interface element currently having input focus, and determining a target group that corresponds to the group

identifier key press;

wherein when the <u>user</u> navigation <u>input</u> key is the forward <u>user</u> navigation <u>input</u> key, <u>:</u>

input focus is shifted to a next user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the <u>user</u> navigation <u>input</u> key is the backward <u>user</u> navigation <u>input</u> key;

input focus is shifted to a previous user an interface element

previous in order in the current group if the current

group is the same as the target group, or

input focus is shifted to a last user an interface element last in order in the target group if the current group is not the same as the target group.

24. (Currently Amended) The method of claim 23, wherein detecting a sequence of one or more <u>user</u> navigation <u>inputs</u> key presses comprises:

- detecting a sequence of forward <u>user</u> navigation <u>inputs</u> key presses, the sequence having a first <u>user</u> navigation <u>input</u> key press and a last <u>user</u> navigation <u>input</u> key press;
- initializing the navigation string when the first <u>user</u> navigation <u>input</u> key press is detected;
- starting a time out interval with each forward <u>user</u> navigation <u>input</u> key press; and
- determining the last <u>user</u> navigation <u>input</u> key press as the <u>input</u> key press after which no forward <u>user</u> navigation <u>inputs</u> key presses are detected within the time out interval.
- 25. (Currently Amended) The method of claim 23, wherein detecting a sequence of one or more <u>user</u> navigation <u>inputs</u> key presses comprises:
 - detecting a sequence of backward <u>user</u> navigation <u>inputs</u> key presses, the sequence having a first <u>user</u> navigation <u>input</u> key press and a last <u>user</u> navigation <u>input</u> key press;
 - initializing the navigation string when the first <u>user</u> navigation <u>input</u> key press is detected;
 - starting a time out interval with each backward navigation key press; and determining the last navigation key press as the key press after which no backward navigation key presses are detected within the time out interval.

26. (Currently Amended) The method of claim 23, wherein the user interface elements have an order, and shifting input focus to a user interface element comprises:

if the <u>user</u> navigation <u>input</u> key is [[a]] <u>the</u> forward <u>user</u> navigation <u>input</u> key, shifting input focus to a next <u>in order</u> user interface element having a text label starting with the same characters as the characters in the navigation string; and

if the <u>user</u> navigation <u>input key</u> is [[a]] <u>the</u> backward <u>user</u> navigation <u>input</u> key, shifting input focus to a previous <u>in order</u> user interface element having a text label starting with the same characters as the characters in the navigation string.

27. (Currently Amended) A computer implemented method providing activation keys for user interface elements on a display screen, of a computer-program application

the interface elements being arranged in order into user interface element groups

having assigned group identifier characters; and

the interface elements indicating, on the display screen, an element currently having focus to receive user input, the method comprising:

detecting an ensemble of sequential <u>user</u> activation <u>inputs</u> key presses,
each <u>user</u> activation <u>input</u> key comprising a character, thereby
detecting a sequence of characters, each <u>user</u> activation <u>input</u>

comprising one of key being a forward user activation input key or a backward user activation input key, the forward user activation input comprises a forward activation modifier key press combined with a key press of a first group identifier character and the backward user activation input comprises a backward activation modifier key press combined with a key press of a second group identifier character;

- identifying a matching activation user interface element by finding an activation user interface element having a label matching the sequence of characters; and
- performing an action associated with the matching activation user interface element[[,]];
- wherein, when the navigation <u>user activation input</u> key is <u>detected</u> pressed, <u>:</u>
 - interface elements is determined, that contains the interface element currently having input focus, and determining a target group that corresponds to the group identifier key press;
- wherein when the navigation user activation input key is the forward navigation user activation input key; :

input focus is shifted to a next user an interface element next

in order in the current group if the current group is the same as the target group, or

input focus is shifted to a first user interface element in the target group if the current group is not the same as the target group, and

wherein when the navigation user activation input key is the backward navigation user activation input key;

input focus is shifted to a previous user an interface element

previous in order in the current group if the current

group is the same as the target group, or

input focus is shifted to a last user an interface element last

in order in the target group if the current group is not
the same as the target group.

28. (Original) The method of claim 27, wherein detecting an ensemble comprises:

detecting a sequence of one or more characters that uniquely identifies an activation user interface element.

- 29. (Currently Amended) The method of claim 28, wherein the sequence of one or more characters is a sequence of identical group identifiers identifier characters.
- 30. (Currently Amended) The method of claim 27, wherein detecting an ensemble comprises:

detecting one or more sequential <u>user</u> activation <u>inputs</u> key presses entered by a user within a time threshold.

- 31. (Currently Amended) The method of claim 27, wherein:
 the pressing and releasing of an activation modifier key delimits the <u>user</u>
 activation <u>inputs</u> key presses in the ensemble.
- 32. (New) The product of claim 1, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.
- 33. (New) The product of claim 9, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.

- 34. (New) The product of claim 13, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.
- 35. (New) The method of claim 18, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.
- 36. (New) The method of claim 23, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.
- 37. (New) The method of claim 27, wherein, if there is no current group, the target group is deemed to be different from the current group and input focus is shifted to a first user interface element in the target group.